

DRIVE METHOD OF PLASMA DISPLAY PANEL

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Abstract

PURPOSE: To prevent an ignition error due to the action of ions or electrons as a trigger to start a discharge process by providing pre-discharge sub-field, and causing charged particles or the like to reside in a discharge cell at all times.

CONSTITUTION: In addition to pre-discharge sub-field for the display of gradation, another pre-discharge sub-field A is provided and pre-discharge is carried out in all picture elements within the required time. As a result, ion and electron come to reside in each picture element at all times. When discharge start pulse voltage is applied to the element, therefore, the residual ions or electrons act as a trigger to start a discharge process. In this case, for example, an erase pulse C is inserted immediately after a scanning pulse E, and all line electrodes Dj (j=1 to 480) are applied with data pulses D for lighting the picture elements. In any picture element controlled with a scanning electrode Si, therefore, a discharge luminous waveform is, for example, as shown in the lowest line of the illustration. By performing the pre-discharge as aforementioned, it becomes possible to eliminate an error in suddenly lighting a picture element not lit for a long time.

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決定電圧 $C_1 \sim C_{10}$
 に印加される電圧波形
 決定電圧 S_1 の電圧波形
 に印加される電圧波形
 決定電圧 S_2 の電圧波形
 に印加される電圧波形
 決定電圧 S_3 の電圧波形
 に印加される電圧波形
 決定電圧 S_4 の電圧波形
 に印加される電圧波形

